BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work	:	Modified Estimate for Improvements of Drains and Construction of Culverts in Hegadenagara Eastren 2nd Main and Both side Cross Road in Ward No. 06 Byatarayanapura Sub Division
Modified Estimated Cost	:	3988515.05
Job Code:		006-17-000036

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

e of work: Modified Estimate for Improvements of Drains and Construction Culverts in Hegadenagara Eastren 2nd Main and Both side Cross Road in Ward o. 06 Byatarayanapura Sub Division

									Estimate Cost Rs.	3988515.05
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Hard Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.1/ PWD SR 2016-17	cum							
	Desilting of Drain								
	Hegadenagara Eastren Side 2nd main		1	152.00	0.40	0.35	21.28		
			1	160.00	0.40	0.35	22.40		
	Balance Portion 1st Main Hegadenagara		1	110.00	0.40	0.35	15.40		
	As per Approved Sch-B Qty 121.80						**59.08**	S R 86.92	**5135.23**
	up to 125% Qty 152.25								
	Approved Schedule B Rate	86.92							
2	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.2/ PWD SR 2015-16	Cum							
	For Flaging Course Drain								
	Hegadenagara Eastren Side 2nd main		1X2	152.00	0.25	0.30	22.80		
	Cross Roads		1X2	160.00	0.25	0.30	24.00		
	Culverts		1X2	110.00	0.25	0.30	16.50		
	For Kerb Stone		16	6.50	1.95	1.10	223.08		
	As per Approved Sch-B Qty 288.33		1	110.00	0.30	0.25	8.25		
	up to 125% Qty 360.41						**294.63**	S R 86.92	**25609.24**
	Approved Schedule B Rate	86.92							
3	Removing B.S Slab of Drain and stacking Page No. 25/ Item No. 5.32/ PWD SR 2016-17	Sqm							
	1st Main Hegadenagara Eastren Side 2nd main		1	152.00	1.65		250.80		
	Cross Roads		1	160.00	1.65		264.00		
			1	110.00	1.65		181.50		
	Deduct 20% Missing Slabs						**696.30**		
	As per Approved Sch-B Qty 1148.40						139.26		
	up to 125% Qty 1435.50						**557.04**	S R 65.72	**36608.67**
	Approved Schedule B Rate	65.72							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	ing stone slabs of drains and pointing in (1:3) Page No. 25/ Item No. 5.33/ PWD 2016-17	Sqm							
				Qty Vide Item No.3			557.04		
	As per Approved Sch-B Qty 1148.40						**557.04**	S R 80.56	**44875.14**
	up to 125% Qty 1435.50								
	Approved Schedule B Rate	80.56							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2016-17	Sqm							
	For Missing slabs (20%)			Missing Slabs			139.26		
	As per Approved Sch-B Qty 287.10						**139.26**	S R 665.68	**92702.60**
	up to 125% Qty 358.88								
	Approved Schedule B Rate	665.68							
6	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	Cum							
	For Raising Course Drain								
	Hegadenagara Eastren Side 2nd main		2	152.00	0.25	0.15	11.40		
			2	160.00	0.25	0.15	12.00		
	Cross Roads		2	110.00	0.25	0.15	8.25		
	Culverts		16	6.50	1.95	0.15	30.42		
	For Kerb Stone		1	110.00	0.30	0.15	4.95		
	As per Approved Sch-B Qty 52.17						**67.02**		
	up to 125% Qty 65.21						**65.21**	S R 5159.02	**336419.69**
	above 125% Qty						**1.81**	S R 5159.02	**9337.83**
	Approved Schedule B Rate	5159.02							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	Culverts		16X2	6.50	0.60	0.45	56.16		
	As per Approved Sch-B Qty 56.16						**56.16**	S R 4438.22	**249250.44**
	up to 125% Qty 70.20								
	Approved Schedule B Rate	4438.22							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	5.3-3 Providing and constructing ite / trap / basalt size stone masonry in sement with cement mortar 1:6, edges of tones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	Sqm							
	Culverts		16X2	6.50	0.50	0.45	46.80		
	As per Approved Sch-B Qty 46.80						**46.80**	S R 5305.30	**248288.04**
	up to 125% Qty 58.50						✓	✓	✓
	Approved Schedule B Rate	5305.30	✓						
9	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	Sqm							
	Culverts		16	6.50	0.60		62.40		
	For Sides		16X2	6.50	0.23		47.84		
			16X2	1.65	0.23		12.14		
	As per Approved Sch-B Qty 122.38						**122.38**	S R 271.36	**33210.12**
	up to 125% Qty 152.98						✓	✓	✓
	Approved Schedule B Rate	271.36	✓						
10	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	cum							
	Culverts		16X2	6.50	0.50	0.15	15.60		
	Vent Bed		16	6.50	0.60	0.15	9.36		
	For Raising Course Drain Coaping								
			2	152.00	0.20	0.15	9.12		
			2	160.00	0.20	0.15	9.60		
			2	110.00	0.20	0.15	6.60		
	As per Approved Sch-B Qty 34.04						**50.28**		
	up to 125% Qty 42.55						**42.55**	S R 5598.92	**238234.05** ✓
	above 125% Qty						**7.73**	S R 5598.92	**43279.65** ✓
	Approved Schedule B Rate	5598.92							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	15.1.3 Providing FLush pointing to ...ed stone masonry with cement mortar ...20 mm deep, after raking joints to depth ...20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
	Culverts		16X2	6.50		0.50	104.00		
	As per Approved Sch-B Qty 104.00						**104.00**	S R 102.82	**10693.28**
	up to 125% Qty 152.98								
	Approved Schedule B Rate	102.82							
12	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
	Culverts		16	6.50	1.65	0.23	39.47		
	As per Approved Sch-B Qty 39.47						**39.47**	S R 6371.66	**251476.68**
	up to 125% Qty 49.34								
	Approved Schedule B Rate	6371.66							
13	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17	Qtl							
	0.95 Ton/Cum		0.095	39.47			3.75		
	As per Approved Sch-B Qty 3.08						**3.75**	S R 59413.00	**222766.67**
	up to 125% Qty 3.85								
	Approved Schedule B Rate	59413.00							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	5-14 : Providing and constructing ost concrete solid blocks with mpressive strength not les than 35 g/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 24/ Item No. 5.27/ PWD SR 2016-17	Sqm							
	For Raising Course Drain								
	Hegadenagara Eastren Side 2nd main		2	152.00		0.40	121.60		
			2	160.00		0.40	128.00		
			2	110.00		0.40	88.00		
	As per Approved Sch-B Qty 348.00						**337.60**	S R 993.22	**335311.07**
	up to 125% Qty 435.00						✓	✓	✓
	Approved Schedule B Rate	993.22	✓						
15	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	For Raising Course Drain								
	Hegadenagara Eastren Side 2nd main		1	152.00	0.90		136.80		
			1	160.00	0.90		144.00		
			1	110.00	1.20		132.00		
			2	179.00	0.90		322.20		
	As per Approved Sch-B Qty 783.00						**735.00**	S R 1856.67	**1364652.45**
	up to 125% Qty 978.75						✓	✓	✓
	Approved Schedule B Rate	1856.67	✓						
16	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
				Qty. Vide Item No. 1			**353.71**		
	As per Approved Sch-B Qty 410.13						**353.71**	S R 73.12	**25863.28**
	up to 125% Qty 512.66							✓	✓
	Approved Schedule B Rate	73.12							
	Extra Items								
17	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 25/ Item No. 5.30/ PWD SR 2016-17	Sqm							
			1	110.00			110.00		
				I e 110 /0.45			110.00		

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							244.44	331.78	81102.00
							✓	✓	✓
	Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Total	331.78							
	KSRB 15-17.5 Applying **priming coat** over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 118/ Item No. 15.59 / PWD SR 2016-17	Sqm							
	Kerb Stone Painting		1	110.00		0.30	33.00		
							33.00	43.46	1434.00
							✓	✓	✓
	Basic Rate	41.00	✓						
	Area Weightage @ 6%	2.46	✓						
	Total	43.46	✓						
19	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with **enamel paint** to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Page No. 119/ Item No. 15.60.1 / PWD SR 2016-17								
			1	110.00		0.30	33.00		
							33.00	89.04	2938.00 ✓
	Basic Rate	84.00							
	Area Weightage @ 6%	5.04							
	Total	89.04							
							Grand Total		3659188.12 ✓
20	For 8% KRIDL Charges								292735.05 ✓
21	For 1% Labour Cess								36591.88
									3988515.05 ✓

Rupees Thirty Nine Lakh(s) Eighty Eight Thousand Five Hundred Fifteen And Paise Five Only

1 **Estimate Sanction amount Rs = 4000000.00**

2 **Tender Agriment Amount Rs 3989085.00**

Assistant Engineer
Ward No. 06(Thanisandra)

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
10/12

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Technical Sanction
Accorded For 3988515.05
Head of A/C P-3176
CER NO :TS/07/15 **Dt:** 13.12.2015

TA CE (YNK)